

The Widest Range of Products for Diverse Market Applications



For 50 years, Fairchild Industrial Products Company has maintained an excellent reputation as a manufacturer of precision, high quality, pneumatic, and electro-pneumatic controls. Our line of industrial control products offers one of the largest varieties of precision pneumatic and electro-pneumatic control devices available for process, machine tool, robotic and OEM applications.

Our developing technology in four main product groups - pneumatic pressure regulators, volume boosters, relays and electro-pneumatic transducers has been the basis for our growth and leadership.

Fairchild Industrial Products Company is ISO 9001 approved. We are authorized to display the CE mark on our electro-pneumatic products.

Many of our electro-pneumatic products are also approved for intrinsically safe, explosion-proof, and NEMA 4X (IP65) ratings by FM, CSA, ATEX and SAA.

Our worldwide network of stocking distributors can assist you with application support at the local level. At the factory, our applications engineering staff can solve your problems with new or existing applications. We can work with your plant and design engineers to develop a custom product to suit a specific application.

At Fairchild Industrial Products Company, we have built our reputation on providing quality products, excellent customer service, quick delivery, and immediate response to customer emergencies.

Fairchild Products By Industry

Oil & Gas



Brake Control, Compressor Control, Compressor Starting System, Choke Control, Damper Control, Drilling, Pneumatic Mud Monitoring System, Fuel Supply Louver Control, Process Control and Valve Control.

Chemical



Constant Voltage Control, Controlled Air Pressure, Corrosive Material, Heat Exchanger Control, Nitrogen Tank Blanketing, Pneumatic Pressure Switch, Pressure Valve Control, Process Control, and Waste Water Flow Control.

Pharmaceutical



Constant Voltage Control, Corrosive Material, Distillation Process, Mixing Speed Control, Multi-pen Recorder Ink, Nitrogen Tank Blanketing, Pneumatic Pump Control, Tank Blanketing, Tank Level Gage, Valve Control, and Ventilation (Damper).

I/P and E/P Transducers	Pressure Regulators	Pneumatic Relays	Volume Boosters
T6000, T7800, TXI7800	10, 10BP, 63, 65, 100, 2400 Series	14, 24, 90, 91	20, 200, 200XLR, 4500A
T5200, T6000, TXI7800, T7900, T7950	10BP, 63, 65, 81	24	20, 200, 4500A
T5700, T6000, T7800, TXI7800	50, 65, 66, 66BP, 70B, 81, 1600A	24	20, 200, 4500A

Regulators



	10 Precision Regulator	16 Vacuum Regulator	17 Vacuum Regulator	30 Compact Precision Regulator	63 Filter Regulator	66 Stainless Regulator	70B Sub Miniature Regulator
Flow Capacity: SCFM (m ³ /HR) Supply =100 psig	40 (68)	2.5 (4) @ 29" Vacuum w/inlet port open 40 (68) Positive Flow	12 (20.4)	40 (68)	25 (42.5)	17 (28.9)	2.5 (4.25)
Exhaust Capacity: SCFM (m ³ /HR) Downstream pressure 5 psig above 20 psig set point	5.5 (9.4)	5.5 (9.4)	2.0 (3.4) (Relief Capacity)	2.0 (3.4)	0.8 (1.36)	1.0 (1.7)	0.28 (0.48)
Sensitivity: Inch/WC (cm)	0.125 (0.32)	0.50 (1.27)	0.50 (1.27)	0.25 (0.63)	1.0 (2.54)	1.0 (2.54)	N/A
Supply Pressure Var: PSIG (kPa) For Supply Change:	<0.1 (<0.7) 100 psig	<0.1 (<0.7) 100 psig	<0.1 (<0.7)% of Vacuum Change	<0.2 (1.4) 100 psig	<1.25 (<9) 100 psig	<0.1 (<0.7) 25 psig	<0.05 (<0.35) 5 psig
Supply Pressure Max: PSIG (kPa)	500 (3500)	250 (1700)	30 in Hg ((762 Torr) to "Full" Vacuum	250 (1700)	250 (1700)	500 (3500)	250 (1700)
Dimensions (Approx): Inches (mm)	Dia. 3 H 6 1/2 (Dia. 76 H 165)	Dia. 3 H 8 (Dia. 76 H 203)	Dia. 3 H 8 (Dia. 76 H 203)	2 1/2 x 1 3/4 x 5 1/4 (57 x 44 x 133)	2 x 3 x 7 3/4 (76 x 76 x 197)	Dia. 3 x 6 1/4 Dia. (76 x 159)	Dia. 7/8 H 3 3/16 (Dia. 22 H 81)
Range PSIG (kPa)	0-2 (0-15), 0-10 (0-70), 1-20 (0-150), 0.5-30 (3-200), 1-60 (10-400), 2-150 (15-1000), 3-200 (20-1500), 5-300 (35-2100), 5-400 (35-2800)	Vacuum-2 (Vacuum-15), Vacuum-10 (Vacuum-70), Vacuum-30 (Vacuum-200), Vacuum-100 (Vacuum-700), Vacuum-150 (Vacuum-1000)	0-5 in Hg(127 Torr) 0-15 in Hg (381 Torr) 0-30 in Hg (762 Torr)	0-2 (0-15), 0-10 (0-70), 0.5-30 (3-200), 1-60 (10-400), 2-100 (15-700)	0.5-30 (3-200), 1-60 (10-400), 2-120 (15-800)	0-10 (0-70), 0.5-30 (3-200), 1-60 (10-400), 2-100 (15-700), 2-150 (15-1000)	0-5 (0-35), 0-15 (0-100), 0.5-30 (3-200), 1-60 (10-400), 2-100 (15-700)
Pipe Size NPT	1/4", 3/8", 1/2"	1/4", 3/8", 1/2"	1/4", 3/8", 1/2"	1/4", 3/8"	1/4"	1/4", 3/8", 1/2"	1/16"

Pneumatic Relays



	14 Positive/Negative Bias Relay	15 Positive Bias Relay	21 Adjustable Ratio Relay	22 Pneumatic Computing Relay	24 Snap Acting Relay
Flow Capacity: SCFM (m ³ /HR)	40 (68)	40 (68)	40 (68)	2 (3.4)	14 (23.8)
Exhaust Capacity: SCFM (m ³ /HR)	5.5 (9.4)	5.5 (9.4)	5.5 (9.4)	Note 1	14 (23.8)
Sensitivity: Inch/WC (cm)	0.5 (1.27)	0.25 (0.64)	0.5 (1.27)	Note 1	0.2" WC to 0.5 psig Depending on model
Supply Pressure Max: PSIG (kPa)	250 (1700)	250 (1700)	250 (1700)	150 (1000)	120 (800)
Signal Pressure Max: PSIG (kPa)	150 (1000)	150 (1000)	150 (1000)	50 (350)	120 (800)
Output Pressure Max: PSIG (kPa)	150 (1000)	150 (1000)	150 (1000)	50 (350)	120 (800)
Dimensions (Approx): Inches (mm)	Dia. 3 H 8 (Dia. 76 H 203)	Dia. 3 H 7 (Dia. 76 H 177)	9 7/8 x 3 5/8 x 4 7/8 (251 x 92 x 124)	Dia. 3 H 9 (Dia. 76 H 229)	Dia. 3 H 8 1/2 (Dia. 76 H 216)

Note 1: Multiple configurations allowing up to 4 inputs plus positive and negative biasing over a broad range, designed for multiple functions such as Averaging, Differential, Inverting, Totalizing and On/Off.



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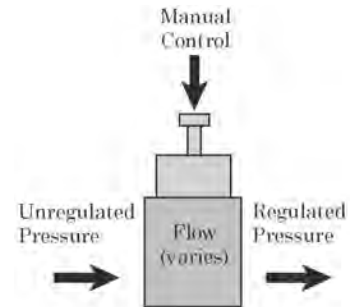
Pneumatic Pressure Regulators



A pressure regulator reduces an unregulated high input pressure to a regulated lower output pressure. Its primary function is to maintain the regulated output pressure under flowing and non-flowing conditions.

Fairchild manufactures a complete line of precision pneumatic regulators including positive pressure, back pressure and vacuum models. Quality engineering and manufacturing excellence assures that our pressure regulators meet all the requirements of a precision device including:

- Pressure accuracy
- Supply pressure immunity
- Low output droop
- Sensitivity
- Drift-free settings



Our large selection of pressure ranges and flow capacities lets you select the models that meet your needs for instrument or general industrial control applications. Fairchild pressure regulator models are:

- | | | | | |
|---------------------|--------------|--------|----------------|---------|
| • 10 Series / 10 BP | • 63 | • 80D | • 1600A | • 3400 |
| • 16 | • 64A, 65A | • 81 | • 24CC, 24CS | • 4000A |
| • 30 Series / 30BP | • 66 / 66 BP | • 100 | • 24XFC, 24XFS | |
| • 50 / 50 BP | • 70B | • 1000 | • 2800 | |

Pneumatic Relays



Pneumatic relays perform mathematical functions on one or more input signals that result in a single regulated pneumatic output including:

- Average
- Sum

Fairchild pneumatic relays meet all the requirements of a precision device including:

- Accuracy
- Sensitivity
- Fast response

Fairchild pneumatic relay models are:

- | | | |
|------|-------|---------|
| • 14 | • 24 | • 91 |
| • 15 | • 25 | • 1500A |
| • 21 | • 85D | • 2500A |
| • 22 | • 90 | |

